EUGENE JABLONOWSKI/R5/USEPA/US
04/04/2007 09:41 AM

To glennhuber@sachi.com
cc "Korder, Steve" <Korder@stsconsultants.com>, VERNETA SIMON/R5/USEPA/US@EPA
bcc Cathleen Martwick/R5/USEPA/US

Subject OK to Ship: 400 N. LSD: 23 FEB 2007 sampling event

Glenn,

I received clearance from NAREL for the shipment of the samples, so you can now ship them.

Attached are the NAREL shipping instructions for shipping the 23 February 2007 samples collected from the 400 N. Lake Shore Drive site. The FedEx telephone number for these samples is 334-270-3433.

Thanks,

Gene

NAREL Shipping Instructions.pdf

"Korder, Steve" <Korder@stsconsultants.com>

"Korder, Steve" <Korder@stsconsultants .com>
02/28/07 01:34 PM

To

Subject 400 N. Lake Shore Drive - Investigation Procedures and Nutranl Results

Good Afternoon Gene:

I have attached a copy of the analytical results (see attached PDF) for the composite samples collected from the excavated lift soils as well as the two discrete samples collected from the reddish ash material exposed in the two shallow test pits (12 inches deep and about 2-3 feet across). The paragraphs below briefly describe our agreed approach and the results of the field screening performed. I will plan to contact you shortly to determine if you have any additional comments regarding the outlined approach and/or the analytical results.

Sincerely,

Steve Korder

phone 847.279.2448
fax 847.279.2510
korder@stsconsultants.com

Investigation Summary

On Friday February 23, 2007 a radiological investigation was conducted on a small 5 X 10 meter portion of the south parcel at 400 N. Lake Shore Drive property. Steve Korder (STS), Glenn Huber (Huber

Consultants), Gene Jablonowski (USEPA) and Verneta Simon (USEPA) were all present for the field work. Lift excavations (18-inch lift removal) and surveying had previously delineated a 5 X 10 meter area where gamma readings greater than twice background were observed. Two shallow test pits had exposed a reddish ash material within this area which appeared to be responsible for the elevated readings. With the exception of the two shallow test pits, the reddish material was not observed at the surface of the area. More significantly, although the gamma readings were elevated relative to twice background (~14,000 cpm), the surface gamma readings were still less than the cutoff threshold of about 19,000 cpm.

Prior to conducting the excavation activities on February 23, it was agreed that samples would be collected from the two test pit areas. According to Glenn Huber, who was in the excavation when Gene collected the samples, the western sample location that was within the shallow test pit (grid location O.5/21.5) had a maximum gamma reading of 21,000 cpm, while the eastern spot (P.5/21.5) had a reading of about 18,000 cpm (versus a cutoff threshold of about 19,000 cpm). It is also my understanding that the elevated readings at the western location (O.5/21.5) were restricted to a very small area (i.e., 1-2 ft^2) and that the sample was collected at a depth of about 3-6 inches below the surface.

Since the layer responsible for the elevated readings appeared to be restricted to the reddish material located beneath the surface, our agreed approach was to scrape a thin (3-inch) layer of the clean soil (i.e., readings less than the threshold) from the surface to expose the impacted soil beneath. Removal of the clean surface layer would thereby minimize the incorporation of clean soil with any impacted material. This process is typical of the procedures utilized historically in Streeterville projects for the removal of impacted material (i.e., basically remove clean soil in thin lifts to expose the impacted soil).

The 5 X 10 meter area was roughly divided in half and a series of 3-inch lifts removed from each area. As indicated above, our intention was to remove the clean soil at the surface and super-sack any exposed soil that was radiologically-impacted. Table 1 below presents the maximum gamma readings following the removal of each lift. No gamma readings greater than the Ludlum threshold value were noted by either Glenn Huber or the USEPA (both conducting separate surveys with their own equipment). Furthermore, although the western sample location (O.5/21.5) showed elevated readings at the depth from which the sample was collected, none of the readings exceeded the cutoff threshold for the Ludlum instruments. As a result, no material was excavated and placed into super-sacks. Finally, each lift of clean soil was surveyed a second time after it was scraped to the side of the excavation area and surveyed a third time after it was spread into a thin layer adjacent to the excavation area. No readings greater than the Ludlum threshold cutoff values were observed in any of these additional surveys by either Glenn Huber or the USEPA.

Table 1
Maximum Gamma Readings for Undisturbed Lift Surfaces

		Gamma Readings (cpm)	
Lift	**Depth (inches)**	**P-Q/21-22**	**O-P/21-22**
1	57	15,000	16,800

2	60	16,800	4,800,014
3	63	13,400	4,100,014
4	66	10,200	4,100,010
5	69	9,800	5,000,011
6	72	7,600	1,200,009
7	75	Not applicable	8,000

Sincerely,

Steve Kornder

phone 847.279.2448
fax 847.279.2510
kornder@stsconsultants.com

Nutranl Results.pdf

EUGENE JABLONOWSKI/R5/USEPA/US
04/03/2007 08:11 PM

To glennhuber@sachi.com
cc "Korder, Steve" <Korder@stsconsultants.com>, VERNETA SIMON/R5/USEPA/US@EPA
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Subject 400 N. LSD: 23 FEB 2007 sampling event

Glenn,

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Prior to you actually shipping the sample, I have to receive clearance from NAREL first and will get back to you by C.O.B. 4 April 2007.

Thanks,

Gene

NAREL Shipping Instructions.pdf

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2	60	16,800	0 1 4, 1 0 0
3	63	13,400	0 1 4, 1 0 0
4	66	10,200	0 1 0, 5 0 0
5	69	9,800	0 1 1, 2 0 0
6	72	7,600	0 9, 8 0 0
7	75	Not applicable	0

Sincerely,

Steve Kornder

phone 847.279.2448
fax 847.279.2510
kornder@stsconsultants.com

Nutranl Results.pdf

ATTACHMENT 5 - 6

NAREL SAMPLE SHIPMENT GUIDELINES

This document provides guidance in the shipment of environmental samples to NAREL for radiochemical and/or mixed waste analyses.

All shipments must comply with the requirements of current DOT regulations. Refer to the DOT Hazardous Materials Regulations contained in Title 49 CFR Subtitle B, Chapter 1, Subchapter C, Parts 171 through 180.

Before collecting samples please refer to the attached table for requested sample sizes, containers and preservatives. For matrices not listed contact the NAREL Sample Preparation Manager at (334)270-7052.

Before shipping samples, notify the NAREL Sample Preparation Manager at (334)270-7052 and arrange for sample receipt and subsequent sample return 6 months after results have been reported.

When packing samples for shipment:

-Seal individual samples in plastic bags, preferably ziplock bags.

-Use the correct amount of absorbent material for the volume present. Approved absorbent materials include vermiculite and cat litter.

-The temperature of samples requiring refrigeration during transport MUST be maintained at 4EC ∀ 2EC.

-Ice in a sealed plastic bag or reusable ice substitute freeze packs are acceptable cooling media.

-Chain of Custody forms MUST be sealed in a large ziplock bag and taped to the inside of the cooler lid.

After samples are packed for shipment, secure the cooler with tape and attach a custody seal across the seam of the cooler lid.

All samples MUST be shipped overnight to arrive Monday through Friday. No deliveries are accepted on weekends or Federal holidays.

Send all samples to:

Sample Preparation Manager
National Air and Radiation Environmental Laboratory
540 South Morris Avenue
Montgomery, Alabama 36115